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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/034,821	10/034,821 12/27/2001 Ha Sook k		CU-2789 VE	1473	
26530	7590 11/18/2003	EXAMINER			
LADAS &		LIANG, REGINA			
224 SOUTH CHICAGO,	MICHIGAN AVENUE, S IL 60604	ART UNIT	PAPER NUMBER		
			2674	3	
			DATE MAILED: 11/18/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Application No. Application Applicat									
### Examiner Regina Liang 2674 ### The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. □ Extensions of time may be available under the provisions of 37 CPR 1.136(a). In no event, however, may a reply be timely filled □ If the period transply is available under the provisions of 37 CPR 1.136(a). In no event, however, may a reply be timely filled □ If the period transply is period above. The maintenance of 37 CPR 1.136(a). In no event, however, may a reply be timely filled □ If the period to ringly is period above. The maintenance of 37 CPR 1.136(a). In no event, however, may a reply be timely filled. □ If the period to ringly is period above. The maintenance of the communication of the period to the period of th	, ,		Application	on No.	Applicant(s)				
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2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-6 is/are rejected. 7) Claim(s) 1-6 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-6 is/are rejected. 7) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in aboyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. §§ 119 and 120 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a) (d) or (f). a) All b) Some of long None of: 1. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in Application Papers application of the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. Attachment(s) 10 Notice of References Cited (PTO-892) 21 Notice of References C	THE I - External after - If the - If NC - Failu - Any reame	MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repend for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by statuely received by the Office later than three months after the mailing	136(a). In no even ply within the state d will apply and wite, cause the app	ent, however, may a reply be tim utory minimum of thirty (30) days ill expire SIX (6) MONTHS from lication to become ABANDONE	ely filed s will be considered time the mailing date of this of	.ly. communication.			
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DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "correction circuit unit includes OP Amp or transistor" (claim 3), "gate driving power supply unit includes DC/DC converter having OP Amp or transistor" (claim 4), "the OP Amp or transistor is formed on gate turn-on line" (claim 5), and "the OP Amp or transistor is formed both on gate turn-on line and gate turn-off line" (claim 6) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

2. The drawings are objected to because page 7, line 3-7 of the specification discloses "a corrected power supply unit 16 for supplying saw type signal corrected in the correction circuit unit 14 to gate driver IC", however, Fig. 3 of specification shows that the corrected power supply unit 16 supplying signal to the correction circuit unit 14 not to the gate driver IC. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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4. Claims 1-6 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The specification does not provide any adequately written detailed description, e.g. circuit diagram, flowchart, etc., as to how the correction circuit unit for applying control signal from the control circuit unit to correct an analog signal from the gate driving power supply unit into a saw type signal. The specification also does not disclose what kind of control signal is to be applied to the correction circuit unit.

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As to claim 1, it is unclear and confusing as to "a control circuit unit for applying control signal to analog signal outputted from the gate driving power supply unit" since it is confusing as to what is meant by a control signal is be applied to an analog signal. In line 12, the term "a saw type" is confusing since it is not clear if this is signal or waveform.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Takeda (US. PAT. NO. 6,456,268) teaches a LCD having a gate-on voltage changing circuit.

Yang et al (US. PAT. NO. 6,606,088) teaches a LCD panel having a power distributor.

Moon (US. PAT. NO. 6,407,729) teaches a LCD having a gate voltage generating unit.

Tsuchi et al (US. PAT. NO. 5,818,406) teaches a LCD device having power source circuits.

Ito (US. PAT. NO. 6,249,270) teaches a LCD device having a power source for gate driver.

Moon (US. PAT. NO. 6,373,479) teaches a power supply apparatus of an LCD.

Ueno et al (US. PAT. NO. 6,091,387) teaches a LCD device and driving method of the same.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Regina Liang whose telephone number is (703) 305-4719. The examiner can normally be reached on Monday-Friday from 9AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (703) 305-4709. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

REGINA LIANG PRIMARY EXAMINER ART UNIT 2674

RL 11/14/03